

June 3, 2008

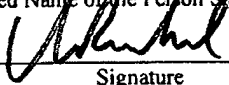
WRITER'S DIRECT NUMBER: (317) 236-5882  
DIRECT FAX: (317) 592-4606  
INTERNET: MARK.REICHEL@ICEMILLER.COM

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

*via EFS-Web*

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this paper or fee is being transmitted electronically to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, through the EFS-Web Filing System, on the date specified below.

MARK C. REICHEL  
Printed or Typed Name of the Person Signing the Certificate  
  
Signature  
6/3/2008  
Date of Signature

Re: Response to Office Action

Inventors: KASSAB, Ghassan S., et al.

Serial No.: 10/782,149

Filing Date: February 19, 2004

Title: SYSTEM AND METHOD FOR MEASURING CROSS-SECTIONAL  
AREAS AND PRESSURE GRADIENTS IN LUMINAL ORGANS

Group Art Unit: 3736

Examiner: SZMAL, Brian Scott

Conf. No.: 5030

Our File No.: P01568-US-01 (26259.0010)

**RESPONSE TO OFFICE ACTION**

In response to the final Office Action mailed April 9, 2008 (the "Office Action"), Applicants file the present complete response (the "Response") within two months of the Office Action. The listing of claims starting on page 2 will replace all prior versions and listings of the claims in the above-referenced patent application (the "Application"). The Remarks begin on page 8 of this paper.